



Parcel C Remedial Action



Project Update for Parcel C Hunters Point Naval Shipyard San Francisco, California

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Contracted Support to NAVFAC BRAC PMO

BRAC Program Management Office West

BCT Meeting September 26, 2013



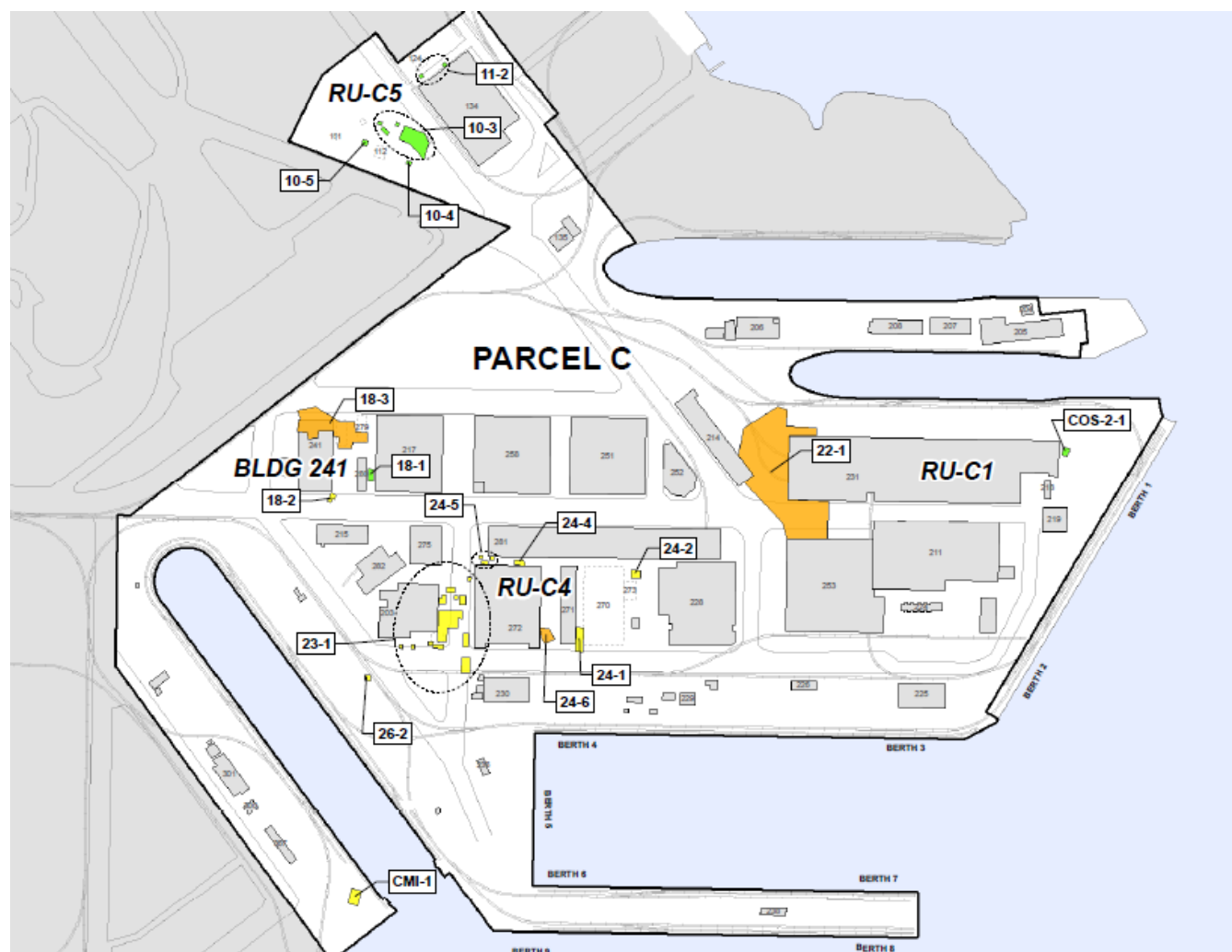
Outline Parcel C Remedial Action



- Overview Status Map
- Excavation Status
 - RU-C5
 - RU-C1
 - RU-C4
 - Building 241 Area
- What's Next
- Schedule



Excavation Progress



Legend

Planned Excavation Areas

- Not Started
- In Progress
- Completed - Pending Backfill
- Parcel C Boundary
- Building (Demolished)
- Building (Existing)

Approximately 17,300 bcy have been excavated and stockpiled (Sep 20, 2013). A total of 22,300 bcy is anticipated to be removed (not including step-outs and/or benching).



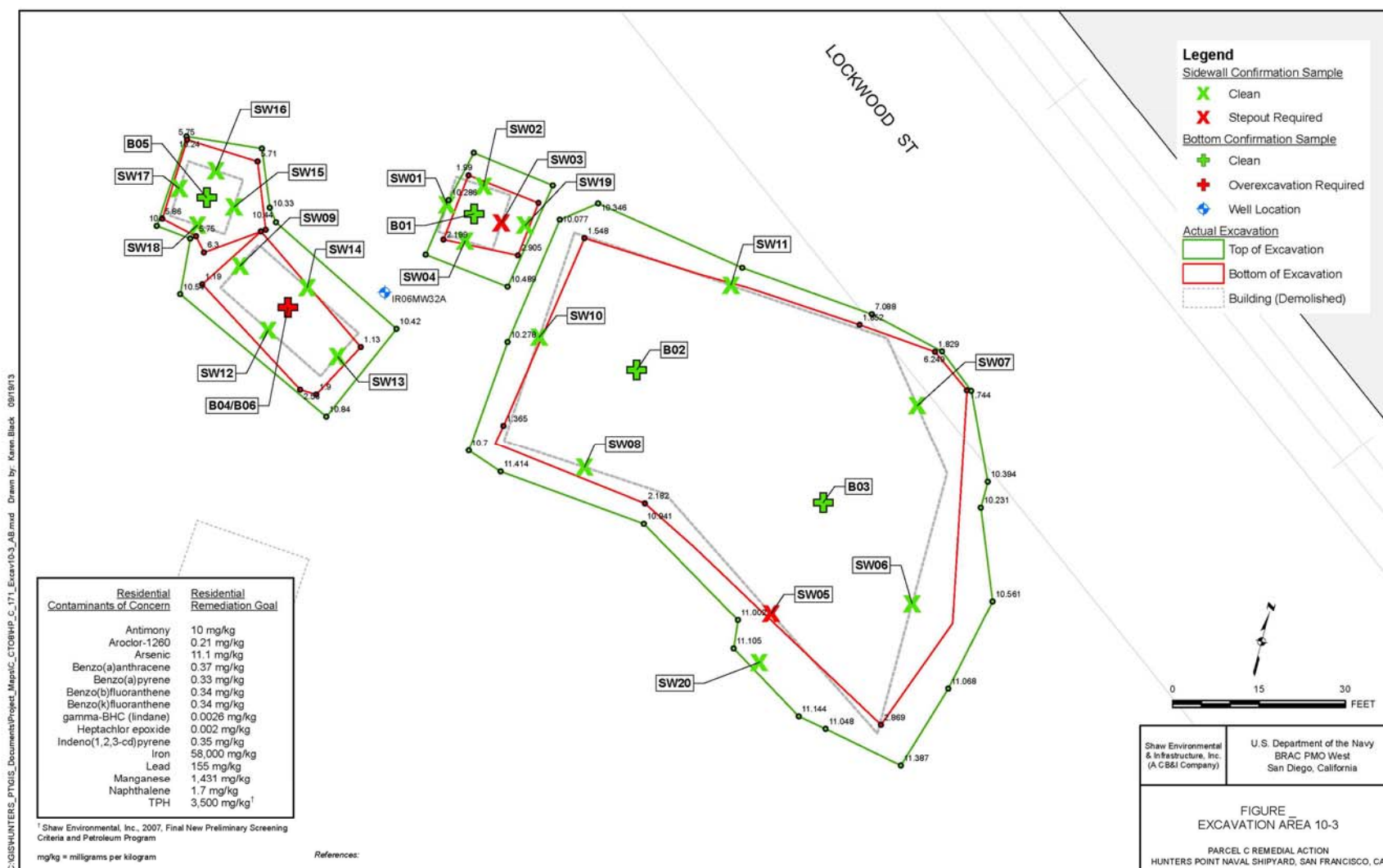
RU-C5



- 100% of excavations within RU-C5 have been excavated and confirmation sampled
- 1,847 bank cubic yards (bcy) have been excavated (planned 1,059 bcy), including benching for 10-3, 10-4, 10-5 and 11-2, and volumes for step-out locations at 10-3, 10-5, and 11-2
- All confirmation sample data now below cleanup goals – backfill using clean import fill planned



RU-C5 Excavation 10-3





RU-C5 Excavation 10-3 (cont'd)



At 10-3:

- Three locations needed step-outs:

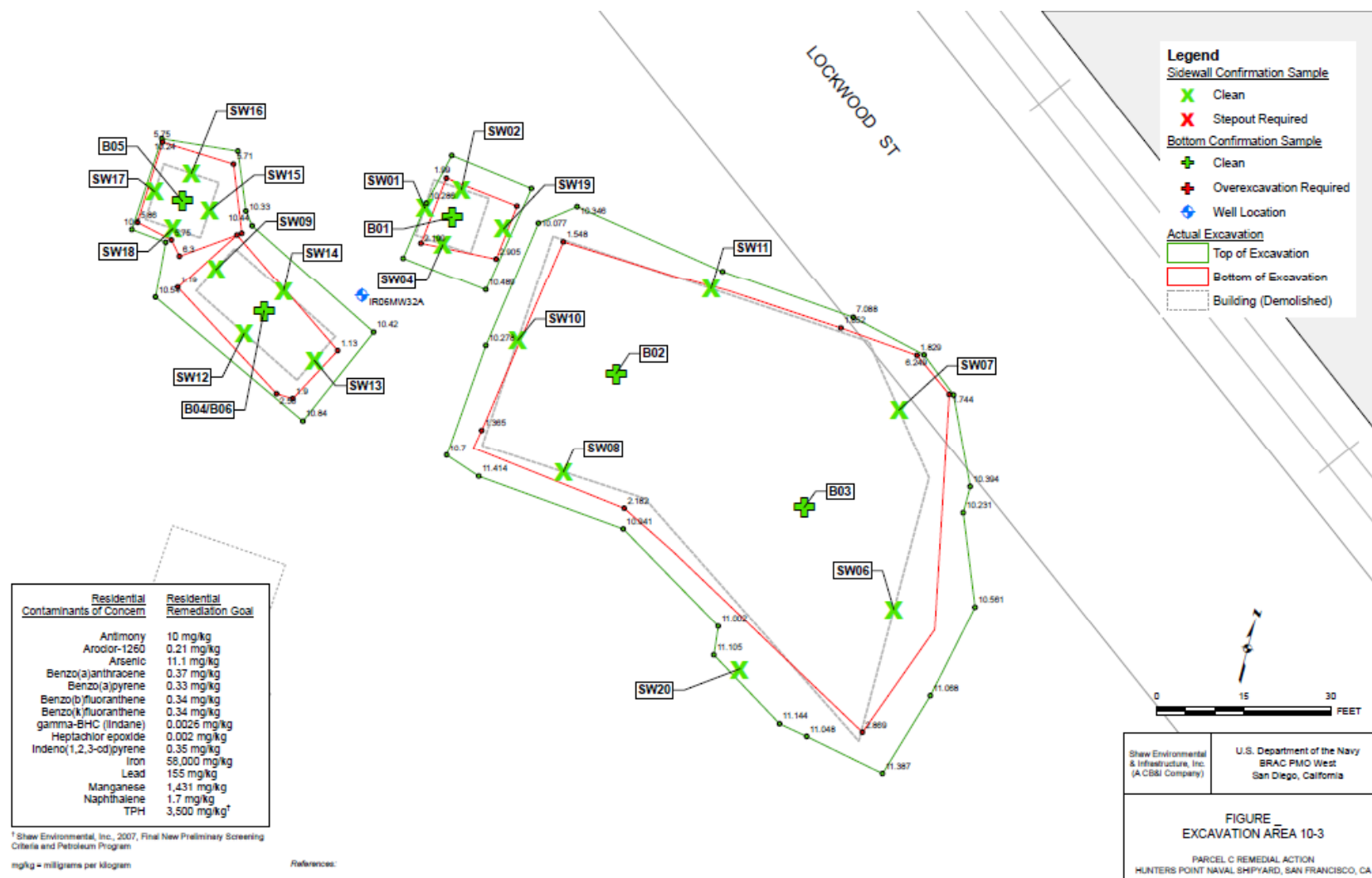
Site	Type	Depth (ft)	PAHs	Metals	TPHs	OCP	PCB
10-3	B04	10	ok	Mn 2,570 mg/kg	ok	ok	ok
10-3	SW03	7	ok	ok	tTPH 7,184.3 mg/kg	ok	ok
10-3	SW05	3	ok	Mn 1,590 mg/kg	ok	ok	ok

- Three locations were over-excavated (approx 80 cy) - Confirmation samples now below cleanup goal:

Site	Type	Depth (ft)	PAHs	Metals	TPHs	OCP	PCB
10-3	B06	11	ok	ok	ok	ok	ok
10-3	SW19	7	ok	ok	ok	ok	ok
10-3	SW20	3	ok	ok	ok	ok	ok



RU-C5 Excavation 10-3 Below Cleanup Goals

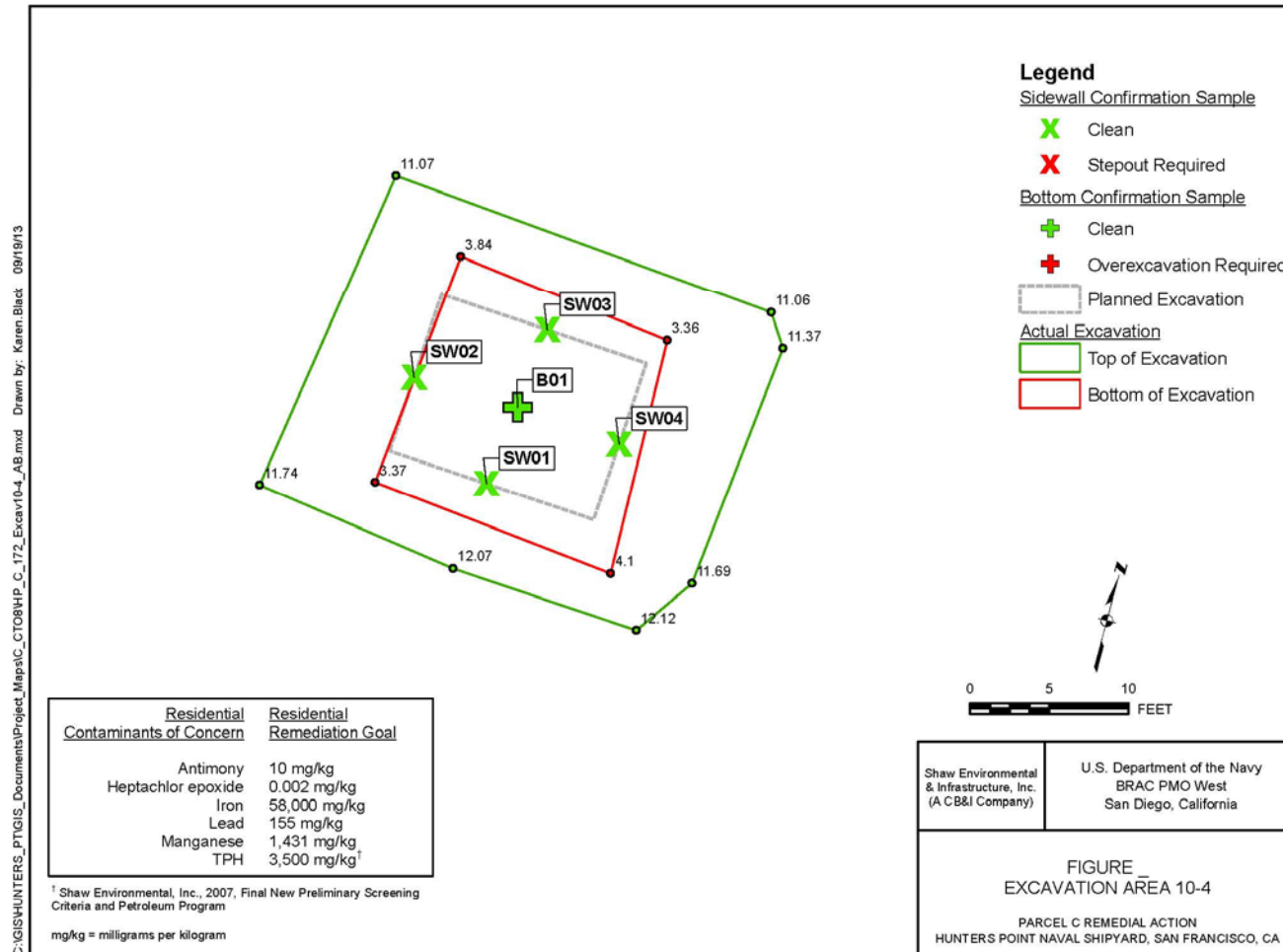




RU-C5 Excavation 10-4

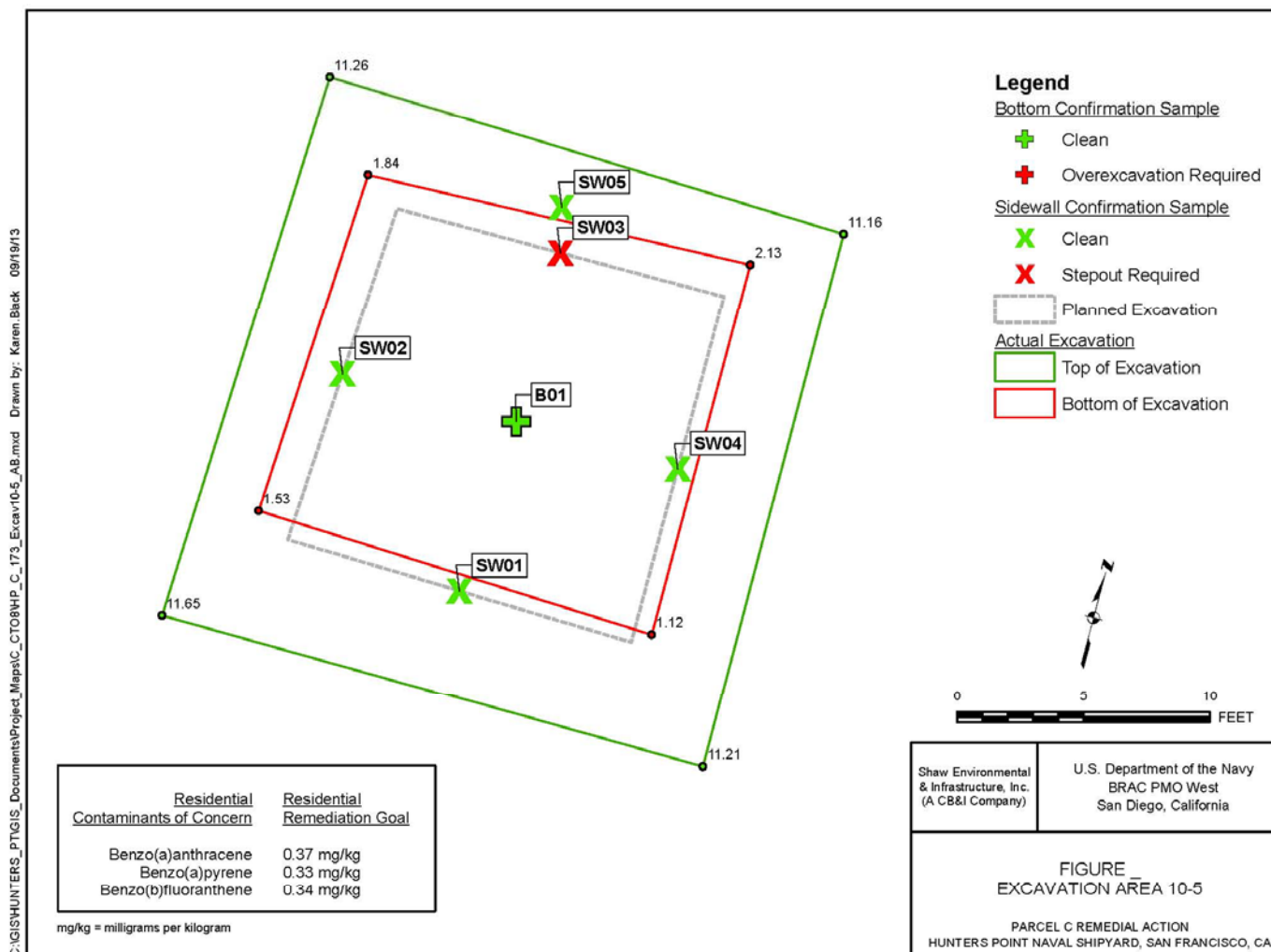


- At 10-4:
- No step-outs needed. All sidewall samples below cleanup goals





RU-C5 Excavation 10-5





RU-C5 Excavation 10-5 (cont'd)



At 10-5:

- One location needed a step-out:

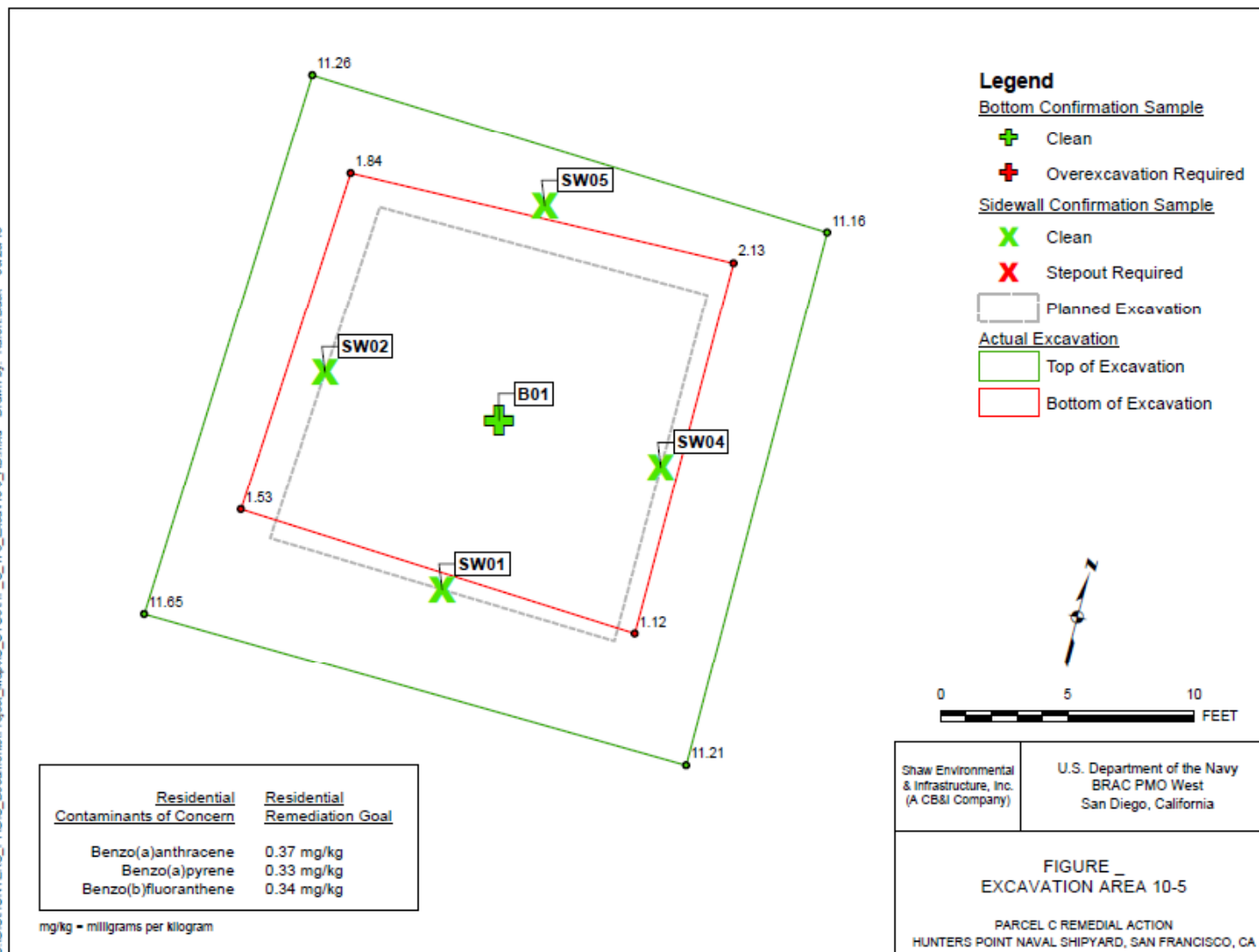
Site	Type	Depth (ft)	PAHs	TPHs
10-5	SW03	8	ok	tTPH 8,925 mg/kg

- The location was over-excavated (approx 16 cy) - Confirmation sample now below cleanup goal:

Site	Type	Depth (ft)	PAHs	TPHs
10-5	SW05	8	ok	ok



RU-C5 Excavation 10-5 – Below Cleanup Goals





RU-C5



Excavation at 10-3, RU-C5 looking southeast
– July 18, 2013



Excavation at 10-5, RU-C5 looking west – July 26, 2013



RU-C1



- 9,757 bcy have been excavated as of 9/18 (planned 14,715 bcy)
- COS-2-1 excavation footprint has been completed. Results are below clean-up goals – backfill planned
- Excavation 22-1 excavation footprint nearing completion. Confirmation samples collected up to other contractor's RCA that abuts the southwest portion of the excavation (sample results pending)
 - Oily material at corner of Bldg 214 and 231 to be excavated in phases
 - Lateral and vertical step-out excavation decisions pending sample results



RU-C1 Excavation COS-2-1



Excavation of COS-2-1 looking northwest – August 13, 2013



RU-C1 Excavation 22-1



Bldg 253



Bldg 281

Excavation between Buildings 231 (not shown on photo) and 253 at Excavation 22-1 looking southwest – August 19, 2013



RU-C1 Excavation 22-1



Bldg 214

Bldg 231

Bldg 253



TPH observed

Panoramic view of Excavation 22-1 facing east – September 2013

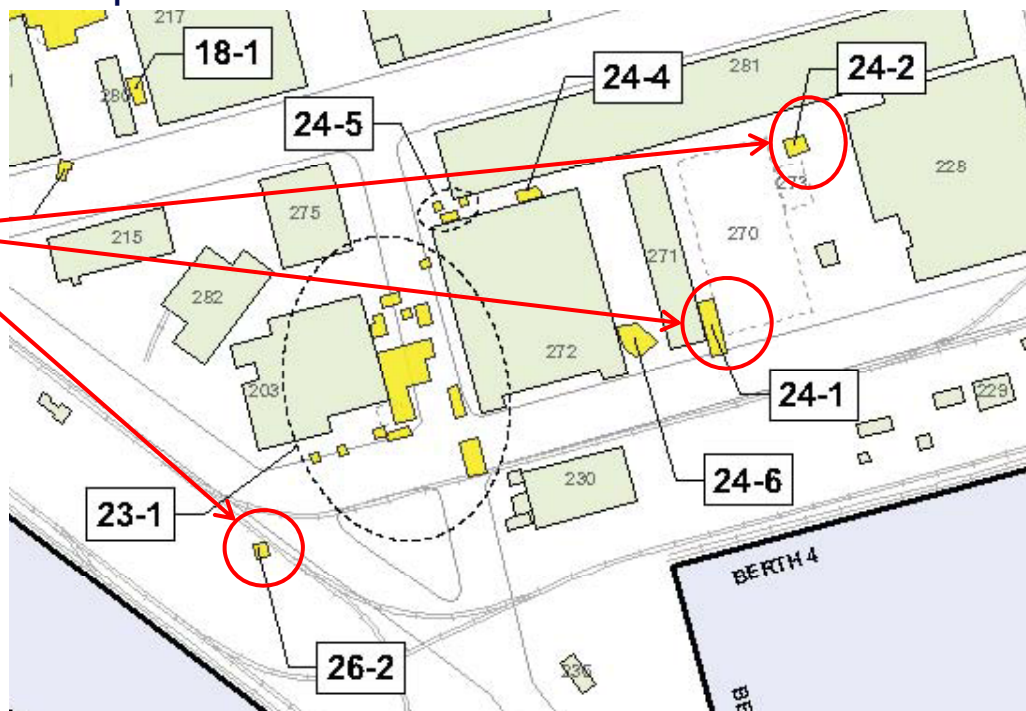


RU-C4



- 386 bcy excavated as of 9/18 (planned 3,398 bcy)
- 24-6 excavation footprint has been completed and sampled; additional step-out excavations are planned based on confirmation sample results (manganese, copper)
- Three excavations are still in other contractor's RCA – to be completed once area is radiologically down-posted

Areas still behind RCA fence





RU-C4 Excavation 24-6



Excavation 24-6 footprint looking south; over-excavations planned – September 9, 2013

Hunters Point Naval Shipyard BCT Meeting – September 26, 2013



Building 241



- 2,292 bcy excavated as of 9/18 (planned 3,046 bcy)
- 18-1 footprint has been excavated and cleared – confirmation samples met cleanup goals
- Bedrock was encountered when excavating 18-3 (anticipated)
- 18-3 footprint inside of Building 241 has been excavated and cleared – confirmation samples within the building footprint met cleanup goals. Excavation outside building still underway
- Excavation of 18-2 footprint planned - westbound traffic along Spear Ave will require temporary traffic detour



Building 241 Excavation 18-1



18-1 excavation complete;
looking south near
Building 217 –
September 4, 2013



Building 241 Excavation 18-3



Excavation 18-3 within Building 241 looking northwest – September 5, 2013



Exposed bedrock at excavation 18-3 looking west – September 18, 2013



Building 241



Excavation 18-1 stockpiling between Buildings 241 and 217 looking southwest – September 4, 2013



Tarped dump truck with Parcel C excavated soil – September 18, 2013



What's Next



- Continue excavation of 22-1 and over-excavate locations as needed when confirmation sample results are received
- Commence backfilling of excavations that meet cleanup goals (starting in RU-C5)



Schedule



Activity	Date
Complete Excavation of RU-C4 and Over-excavations As Needed	September – October 2013
Import Clean Backfill	September – October 2013
Placement of Backfill and Site Restoration	October – November 2013
<i>Continue Concrete Coring and Well Install</i>	<i>September – November 2013</i>
<i>SVE System Assembly and Install</i>	<i>October – December 2013</i>
<i>Baseline Groundwater Sampling</i>	<i>November 2013</i>
<i>Remedial Injection Bio and ZVI</i>	<i>December 2013/January 2014</i>
<i>Post-injection Groundwater Sampling</i>	<i>(est.) March 2014</i>